



Financial Assistance Opportunity

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Agency Information

Agency Name: U.S. Department of Energy

Requiring Activity: GO - Golden Field Office (GO)

Opportunity Information

Funding Opportunity Title: Demonstration of Integrated Biorefinery Operations

No

Attach XML files from Grants.gov? Yes

Funding Opportunity Number: DE-PS36-09GO99038

CFDA Code: 81.087

CFDA Title: Renewable Energy Research and Development

Time Zone for Due Date Times: Eastern Time

Letter of Intent: 02/20/2009 **by** 11:59 PM **Eastern Time**

Application Due Date: 04/30/2009

Application Due Time: 11:59 PM

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Announcement Information

Instrument Type: Cooperative Agreement, Other

Solicitation Description:

The intent of the FOA will be to select integrated biorefinery projects that have the necessary technical and economic performance data that validates readiness for the next level of scale up. In general, "integrated biorefineries" employ various combinations of feedstocks and conversion technologies to produce a variety of products, with the main focus on producing biofuels. Co- or by-products can include chemicals (or other materials) and heat and power. For the purpose of this FOA, the term "integrated biorefinery" is a facility that uses a feedstock meeting the requirements described in this FOA to produce a biofuel as the "primary product" (as discussed below) and may produce other products including chemicals (or other materials) and heat and power. These integrated biorefineries would produce, as their primary product, a liquid transportation fuel to support meeting the advanced biofuels portion of the Energy Independence and Security Act of 2007 (EISA) Renewable Fuel Standards (RFS) and as further discussed below.

DOE encourages applications that propose novel or breakthrough technologies and those that include appropriate collaboration between and among industry, academia, and DOE National Laboratories, FFRDCs (Federally Funded Research and Development Centers) or other government-funded facilities.

The FOA has two topic areas described below. Each topic area is related to beneficial use of renewable biomass for the production of liquid transportation biofuel(s) that is/are a replacement for fossil derived liquid transportation fuels. Biobased chemicals and substitutes for petroleum-based feedstocks and products may be included as part of the integrated biorefinery process, provided that they are not the primary product and the application demonstrates that they have credible economics to improve the viability of the proposed biorefinery. An eligible biofuel must be the primary product of the project proposed in the application. The "primary product" is the commodity to be offered for sale resulting from the operation of the integrated biorefinery that produces the highest total energy output as measured in British Thermal Units. The total energy output is not based on the energy per unit of product but rather the production rate of the product multiplied by its energy per unit. For the purpose of the FOA, the fuels must be liquid at standard temperature and pressure.

Applicants should note that the technology for producing heat and power by conventional means is an established technology, and this FOA is designed to address the high technical risks associated primarily with converting biobased feedstocks to biofuels rather than heat and power. Hence, for this FOA, applications that propose refineries producing heat and power as the primary product would be considered non-responsive. Projects may, however, propose producing heat and power using waste streams resulting from a biorefinery if the production of an eligible liquid transportation biofuel is the primary product.

Each applicant may submit only one application to this FOA.

This FOA contains two topic areas with the purposes of promoting flexibility for the applicants, encouraging competition, allowing for reasonable levels of scale up, and in recognition that the diverse technologies likely to be submitted may require different

volumes to be technically feasible.

Topic Area 1

Topic Area 1 requests applicants to operate an integrated pilot-scale biorefinery in order to validate the technology. For the purpose of this FOA, a pilot-scale biorefinery project is defined as a facility with a throughput of no less than one (1) dry tonne of feedstock per day. The proposed biorefinery must be located within the United States and use feedstock from a domestic source. The focus of this topic is to validate the performance of the proposed technology and obtain operational information, so, in lieu of constructing a new facility, the applicant may propose the use of an existing pilot-scale biorefinery. Applicants may propose constructing new facilities or modifications to an existing facility (including adding equipment or modules) where it is economically and technically advantageous to do so.

Topic Area 2

Topic Area 2 requests that applicants design, construct and operate an integrated demonstration-scale biorefinery to validate the technology. The proposed demonstration-scale biorefinery must be designed and constructed for a throughput of at least fifty (50) dry tonnes of feedstock per day. The proposed biorefinery must be located within the United States and use feedstock from a domestic source. The objective of this topic is to support demonstration-scale projects that will validate key process metrics and provide continuous operational data at the scale needed to lower the technical risks associated with the development of a viable future commercial plant. The applicant may propose constructing a new facility or making modifications to an existing facility (including adding equipment or modules) where it is both economically and technically advantageous to do so.

PLEASE DOWNLOAD THE FULL ANNOUNCEMENT UNDER THE FULL ANNOUNCEMENT AND OTHER FILES SECTION, WHICH IS FOUND BELOW

Category of Funding Activity: EN - Energy

Explanation of "Other" Category of Funding Activity:

Eligible Applicants: 99 - Unrestricted (i.e. open to any type of entity below) - subject to any clarification in the text field "Additional Information on Eligibility"

Additional Information on Eligibility:

Cost Sharing or Matching Requirement: Yes

Type of Action: Competitive

Estimated Total Funding Available: Not Available

Expected Number of Not Available

Awards:**Anticipated Award Size:****Award Ceiling:** \$40,000,000**Award Floor:** \$0**Period of Performance:****Anticipated Start Date:****Additional Information****Status:** 1. Announcement Issued**Date Posted:** 12/22/2008**Proposal Disallowed Reason:** Applications must be submitted via Grants.gov to be considered for award.**Archive Date:** 06/30/2009**URL Links****Link 1:** <http://www.grants.gov/DownloadViewer>**Link 1 Description:** PureEdge Viewer Download Instructions**Link 2:** <http://www.grants.gov>**Link 2 Description:** Grants.gov web site**Link 3:** http://www.grants.gov/help/user_guides.jsp**Link 3 Description:** Grants.gov User Guide**Link 4:** http://www.grants.gov/applicants/apply_for_grants.jsp**Link 4 Description:** How to Apply**Full Announcement & Other Files**

Enviro.doc	50 KB
PFD_Data.doc	40 KB
Proforma.xls	137 KB
TechandFinData.xls	57 KB
GO99038_FOA_FINAL2.pdf	

576 KB
Total:860 KB

Supporting Documents/Amendments for this Financial Assistance Opportunity

No documents found

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